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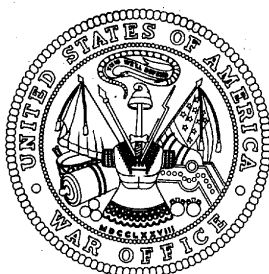
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JOINT PHOTOGRAPHIC INTELLIGENCE MEMORANDUM

STEEL FABRICATING AND MUNITIONS COMBINE

NOVOSIBIRSK, USSR

[REDACTED]



**ARMY**



**CIA**

Declass Review by  
NIMA / DoD

HTA/JM-II/58

22 MAY 1958

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STEEL FABRICATING AND UNIONS CO INC

NOVOSIBIRSK, USSR

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RECEIVED

22 MAY 1958

STEEL FABRICATING AND MUNITIONS COMBINE  
NOVOSIBIRSK, USSR

HTA/JM-11/58

22 May 1958

HTA/JM-11/58

STEEL FABRICATING AND MUNITIONS COMBINE  
NOVOSIBIRSK, USSR

The Novosibirsk Steel Fabricating and Munitions Combine, located in the southwest outskirts of the city, is one of the largest industrial combines in the USSR. It occupies an area over a mile square and has a roof cover of approximately 7,300,000 square feet.

This combine contains a large steel fabricating plant which produces structural steel, sheet steel, and various specialized steel products. A munitions plant associated with the combine produces artillery and small arms ammunition. Also associated with the combine and located nearby are two ammunition box factories and an ammunition storage depot.

Collateral sources report that several plants are possibly associated with this combine, including the following: Agricultural Machinery Plant, "Sibselmash"; Armament Plants No. 65, 179, 188; and the Kuzmin Metallurgical Plant. This extensive combine appears large enough to include these plants, but the individual buildings comprising any one plant cannot be determined.

This combine is located along the Trans-Siberian Railroad and is adequately served by both rail and road. The Heat and Power Plant, Krivoshchekovo 2, located within the combine area, furnishes electric power. Although the small scale of the photography precludes the identification of finished products, the combine appears very active and six new buildings are under construction.

The major components of the Steel Fabricating and Munition Combine are identified and annotated on the accompanying photograph and drawing and described in the following key.

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### KEY TO ANNOTATIONS

#### Munitions Plant

1. Six storage buildings, rail served. Total roof area, 93,200 sq. ft.
2. Miscellaneous small storage and service building, rail served. Total roof area 39,000 sq. ft.
3. Burning grounds, for destruction of defective ammunition.
4. Three storage buildings, rail served. Total roof area 46,200 sq. ft.
5. New building under construction, 185 by 60 feet, adjacent to an unidentified building and two storage buildings. Total roof area, 14,800 sq. ft.
6. Munitions assembly area, separately fenced, consisting of one loading house, 470 by 60 feet, one irregular-shaped building, 315 by 45 feet with 2 wings, each 30 by 20 feet, four revetted magazines, each 30 by 25 feet, and one unidentified building, 85 by 30 feet. Magazine area shows little activity.
7. Munitions assembly area, separately fenced, consisting of a single loading house, 470 by 60 feet, and a double magazine, 50 by 25 feet.
8. Munitions assembly area, separately fenced, consisting of five loading houses, 470 by 60 feet; four magazines, 80 by 35 feet; one magazine 35 by 20 feet; one revetted "U" shaped building, 100 by 35 feet with two wings each 40 by 30 feet; and two machine shops, 240 by 55 feet and 200 by 50 feet.
9. Two machine shops under construction, 220 by 90 feet and 200 by 65 feet.

#### Heat and Power Plant Tets, Krivoshchekovo 2

10. Coal storage area, 1000 by 200 feet, served by overhead traveling crane, 260 by 30 feet, rail served.
11. Coal processing plant, 500 by 50 feet.
12. Water treatment building, 175 by 60 feet.
13. Two cooling towers.
14. Boilerhouse, 420 by 155 feet. Five stacks with adjoining generator hall, 520 by 85 feet.
15. Transformer yard.

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KEY TO ANNOTATIONS (cont'd)

Steel Fabricating Combine

16. Probable fabrication or electroplating building, 915 by 80 feet, gas fed, rail served.
17. Housed firing range, 1555 by 45 feet, wing connects to unidentified building, 175 by 60 feet.
18. Two machine shops, 265 by 110 feet and 110 by 45 feet.
19. Two probable warehouses 440 by 75 feet, 145 by 50 feet, rail served.
20. Warehouse, 290 by 50 feet, rail served.
21. Four storage sheds, 175 by 60 feet, 185 by 50 feet, 185 by 45 feet, 65 by 35 feet.
22. Gas generator plant, consisting of a purification unit, two generating units, only one of which is in operation at time of photography, two associated cooling towers, a coal processing building, 120 by 100 feet with associated coal storage area served by overhead traveling crane. Total roof area, 67,100 sq. ft.
23. Boilerhouse, 175 by 100 feet. Associated with gas generator plant.
24. Shop building, 275 by 130 feet.
25. Shop building, 650 by 275 feet, gas fed, rail served.
26. Forge and foundry, multi-sectional, irregular-shaped; consists of heat treatment section, 340 by 220 feet; forge, 310 by 110 feet; casting room, 450 by 90 feet; main working hall, 480 by 285 feet; and a multi-story administration section, 320 by 85 feet. Total roof area, 238,000 sq. ft. Building has two detached stacks and is rail served and gas fed.
27. Rolling mill under construction, 920 by 355 feet, rail served.
28. Shop building under construction, 390 by 210 feet, rail served.
29. Shop building, 145 by 125 feet.
30. Shop building, 430 by 200 feet, rail served, gas fed.
31. Forge, 580 by 175 feet, with two stacks, gas fed. Adjoining the forge, a large building 580 by 240 feet, is under construction.
32. Open hearth furnace building, 760 by 600 feet, gas fed, three detached stacks, rail served.

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KEY TO ANNOTATIONS (cont'd)

33. Two shop buildings, 475 by 160 feet and 200 by 110 feet.
34. Compressor building, 200 by 75 feet, has gas line connection with adjacent forge and foundry.
35. Forge, 840 by 300 feet, gas fed, rail served.
36. Finishing shop, 485 by 90 feet, gas fed. West end has an attached high vertical shaft, 45 by 45 feet.
37. Fabrication building, 545 by 120 feet. Three overhead traveling cranes run along the entire south side of this building.
38. Rolling mill, 820 by 380 feet, gas fed, rail served.
39. Shop building, 285 by 140 feet.
40. Small railroad car repair shop, 80 by 75 feet.
41. Shop building, 540 by 120 feet, gas fed, rail served.
42. Shop building, 575 by 370 feet, gas fed, rail served.
43. Boilerhouse, "L" shaped, 205 by 55 feet with wing 75 by 30 feet, and a detached stack.
44. Transformer station, 185 by 50 feet.
45. Shop building, 860 by 280 feet. Overhead cranes run along both north and south sides of the building.
46. Administration building, 100 by 100 feet, multistory, appears new.
47. Fabrication or pattern building, 220 by 135 feet arched roof. Western end of building opens on an enclosed hard-surfaced area, 175 by 135 feet.
48. Rolling mill, 815 by 220 feet, gas fed, two stacks and heat exchange tower, gas fed, rail served.
49. Specialized steel processing building, 800 by 450 feet, rail served, gas fed, with three detached stacks. Overhead cranes run along the south side of building. Just north of building is a cooling tower and possible gas compressor unit.
50. Shop building, 260 by 105 feet, gas fed.
51. Forge, 670 by 310 feet, gas fed. Gas compressor unit, 75 by 45 feet, is located near the northwest corner. Just south of the building are two detached stacks and three probable gas compressor units.

HTA/JM-11/58

KEY TO ANNOTATIONS (cont'd)

52. Engineering, experimenting, and testing laboratory, 700 by 135 feet.
53. Assembly building, 935 by 400 feet, rail served. Attached office buildings are located along north side.
54. Machine shop, 940 by 105 feet.
55. Two shops, probably for maintenance of mill machinery, both rail served. One is "T" shaped, 145 by 65 feet, by 165 by 55 feet. The other is "U" shaped, 210 by 60 feet, with two wings 235 by 90 feet and 235 by 65 feet.
56. Compressor building, 155 by 65 feet, with four roof vents and four small stacks along the east side.
57. Rolling mill, 920 by 195, gas fed, with six stacks, along the north side.
58. Rolling mill, 920 by 350 feet.
59. Unidentified building, 200 by 45 feet. The central section of this building, 55 by 45 feet, is elevated four or five stories high.
60. Personnel housing area. This fenced area contains several multi-story, gable-roofed apartment buildings with a total roof area of 68,750 sq. ft.
61. Plant maintenance area, a fenced area containing building supplies and two storage-type buildings, one, 175 by 90 feet and the other "L" shaped, 110 by 45 feet, with wing, 80 by 45 feet.
62. Main administration area. Five multistory buildings in landscaped area. Total roof area 90,000 sq. ft.
63. Main gate administration building, multistory building with roof area of 60,000 sq. ft.
64. Machine shop, 250 by 130 feet.
65. Administration-type building under construction, 260 by 50 feet.
66. Shop or fabrication building, roof area, 68,000 sq. ft.
67. Shop building, 335 by 155 feet with wing 75 by 70 feet, within a separate enclosed area. Heavy vehicular traffic in yard. Probable final processing and distribution for light fabrication products.
68. Shop building, 255 by 75 feet, and three associated storage buildings.
69. Security fence with guard towers surrounding entire plant area. Entrances controlled by guard houses.



HTA/JM-11/58

KEY TO ANNOTATIONS (cont'd)

Ammunition Storage Area

70. Ammunition storage area, 1650 x 740 feet, surrounded by a double wire fence with another wire fence 45 feet distant. Consists of five revetted structures, 165 by 50 feet, 50 by 35 feet, 35 by 30 feet, 120 by 30 feet, 165 by 50 feet. Total roof area is 42,000 sq. ft., rail served, and connected by a good surfaced road with the munitions loading plant.

Ammunition Box Plants

71. Ammunition box plant, an enclosed area, approximately 1700 by 1000 feet containing a saw mill, 535 by 110 feet; boilerhouse, 75 by 50 feet; and ten workshops, 165 by 30 feet, 225 by 35 feet, 330 by 40 feet, (two) 265 by 65 feet, and (five) 320 by 35 feet. Fully rail served. This plant manufactures new ammunition boxes and repairs used ones. At the west side is a separate, rail-served enclosure containing stacks of used or damaged ammunition boxes.
72. Ammunition box plant, an enclosed area 1700 by 700 feet, containing a multisection main working hall, 925 by 170 feet, and five support buildings, 175 by 55 feet, 160 by 60 feet, 145 by 50 feet, 85 by 35 feet, and 165 by 55 feet. The main building is rail served at both ends. Open storage of timber and lumber is evident adjacent to railroad spurs.

SUMMARY OF AREA

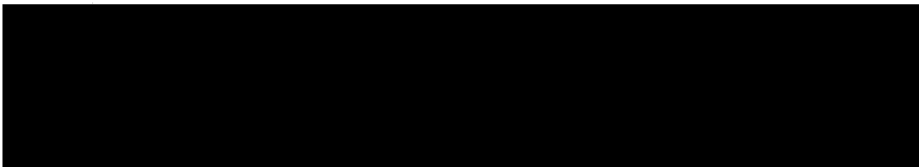
(in sq. ft.)

<u>Components</u>	<u>Land Area</u>	<u>Roof Coverage</u>
Munitions Plant	5,600,000	496,500
Heat and Power Plant Tets, Krivoshchekovo 2	2,250,000	171,700
Steel Fabricating Combine	21,300,000	6,176,300
Ammunition Storage Area	2,163,000	42,000
Ammunition Box Plant	1,925,000	179,000
Ammunition Box Plant	1,340,000	196,000
Total	34,578,000	7,261,500

HTA/JM-11/58

REQUIREMENT: This Joint Photographic Intelligence Memorandum has been prepared at HTAUTOMAT by CIA with Army assistance, to satisfy Army requirements and RR/HTA/E/R51/57 requesting a description of the Novosibirsk Steel Fabricating and Munitions Combine

25X1D



MAP DATA:


0162-9998-0-25A (Prov.), 3rd Ed. Jan 57  
0162-9998-TIS, Jan 57.

COORDINATES:

55°00' N/82°52' E

B.E. NUMBER:

25X1A

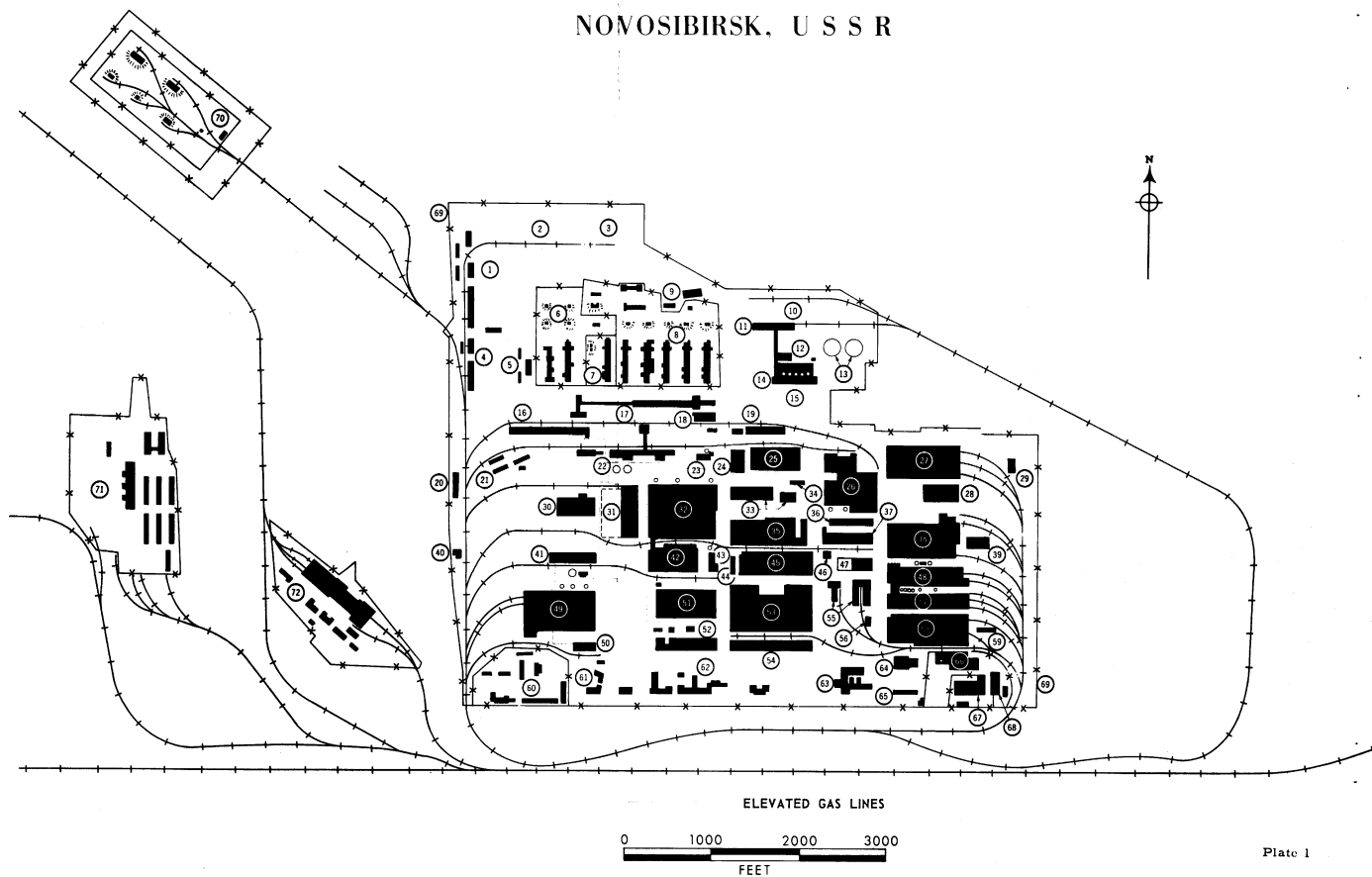
 Novosibirsk Steel Fabricating and Munitions Combine  
Novosibirsk Heat and Power Plant TETS, Krivoshekovo 2

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HTA/JM-11/58

# STEEL FABRICATING AND MUNITIONS COMBINE

## NOVOSIBIRSK, U S S R



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STEEL FABRICATING AND MUNITIONS COMBINE  
NOVOSIBIRSK, USSR  
55° 00' N - 82° 15' E  
DATE OF PHOTOGRAPHY [REDACTED]  
0 1000 2000 3000  
FEET

HTA/JM-11/58

Shipyard

Pumping Station

New Road  
under construction

Ammunition  
Storage Area

Munitions Plant

Heat and Power Plant  
Krivoshechekovo 2

Ammunition  
Box Plant

Ammunition  
Box Plant

Heat and Power Plant  
Krivoshechekovo 1

Foot Bridge

Plate 2

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